

Baits	Prey	Reporter	Reporter Output	Logical Relationship
			X-Gal X-Gal Glu Gal URA- URA- Glu Gal	
LexA-hSos1	B42-Ras · B42	LexOp-LacZ	and a graph of the second of t	And
TetR-c-Raf1	B42-Ros B42	TetOp-URA3	American State of the State of	
LexA-Max	B42-c-Raf1 B42-Mxi1	LexOp-LacZ		Ls1
TetR-RosV12	B42-c-Raf1 B42Mxi1	TetOp-URA3	700 mm 2 m (10	Ls2
LexA-RosV12	B42-c-Raf1	LexOp-LacZ		Ls1
TetR-RasA15	B42-Cdc25 B42-c-Raf1 B42-Cdc25	TetOp-URA3	- 8545 N.N.	Ls2

FIG. 2

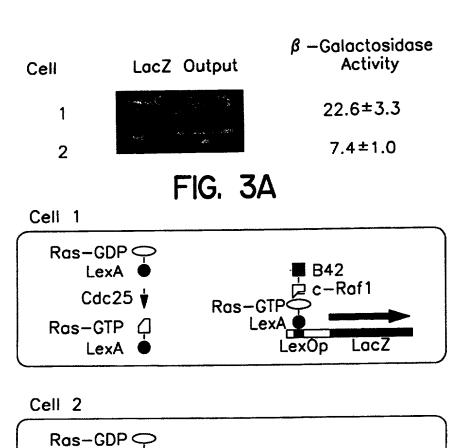


FIG. 3B

Ras-GTP

LexA

LexA •

Ras-GTP △

LexA

Gap ♣

B42

LexOp

c-Rof1

LacZ

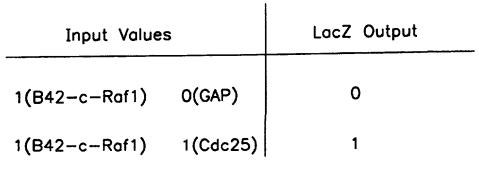


FIG. 3C

## Logical Not

 $\alpha$  factor = 0 TGF- $\beta$  = 1 Input  $\alpha$ -factor, output TGF- $\beta$ Input TGF- $\beta$ , output  $\alpha$  factor

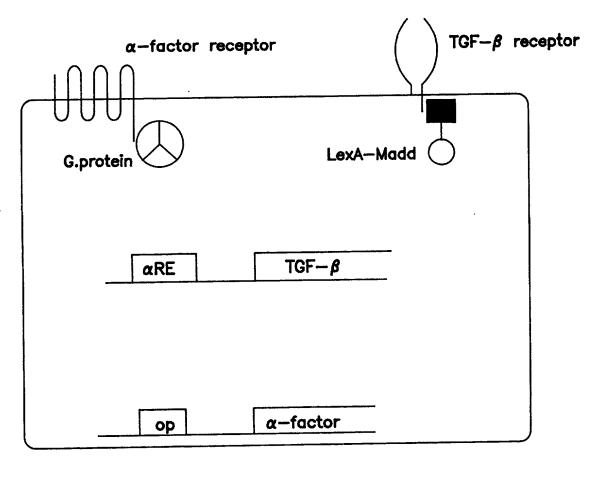


FIG. 4

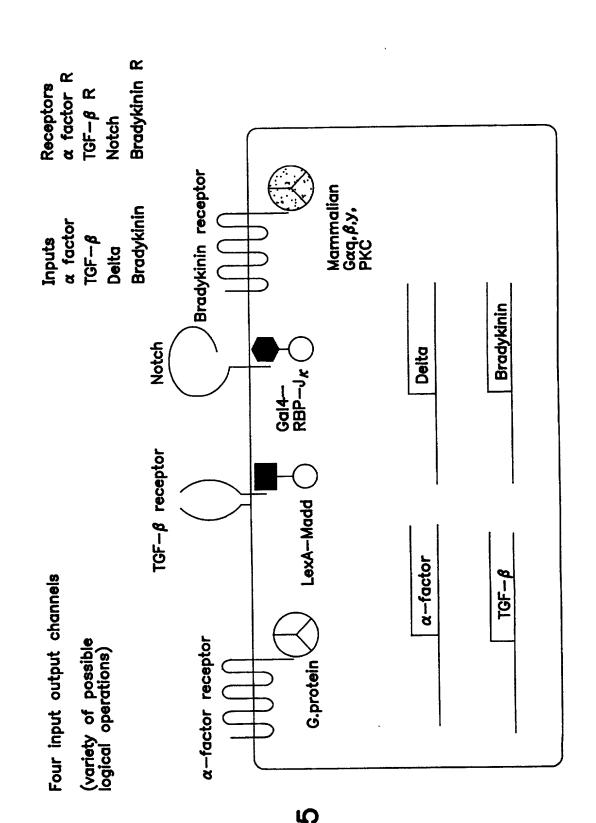


FIG. 5

## Fluorescence resonance energy transfer "transistor"

No green light input HIV protease linker intact Blue light input Green light output

Green light input Linker cleaved Blue light input No green fluorescence

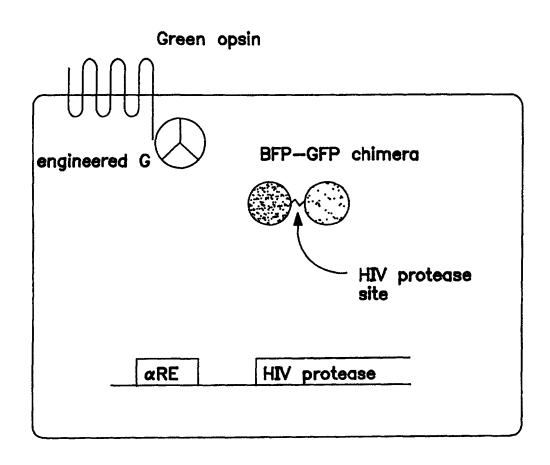


FIG. 6